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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,519	06/19/2003	Kevin J. Murphy	42P16523	8605
8791 7590 02/08/2008 BLAKELY SOKOLOFF TAYLOR & ZAFMAN			EXAMINER	
1279 OAKME	AD PARKWAY	ZATIVIAIN	SHAND, ROBERTA A	
SUNNYVALE	E, CA 94085-4040	ART UNIT PAPE		PAPER NUMBER
		·	2616	
•			MAII DATE	DELIVERY MODE
			MAIL DATE	
			02/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		14
•	Application No.	Applicant(s)
Office Action Comment	10/600,519	MURPHY ET AL.
Office Action Summary	Examiner	Art Unit
	Roberta A. Shand	2616
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. Peply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 19	June 2003.	
	his action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice unde	•	• •
Disposition of Claims		
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application	on.	
4a) Of the above claim(s) is/are withd		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-29</u> is/are rejected.		•
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers	·	
9) The specification is objected to by the Exam	iner.	
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.
Applicant may not request that any objection to the	he drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corr	•	• • • • • • • • • • • • • • • • • • • •
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	•	
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:	ign priority under 35 U.S.C. §	119(a)-(d) or (f).
1. Certified copies of the priority docume	ents have been received.	
2. Certified copies of the priority docume		pplication No
3. Copies of the certified copies of the p	riority documents have been	received in this National Stage
application from the International Bure	eau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a I	ist of the certified copies not	received.
	,	
Attachment(s)		
1) Notice of References Cited (PTO-892)		ummary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08))/Mail Date formal Patent Application
Paper No(s)/Mail Date <u>11/24/2003</u> .	6) Other:	• •

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4, 8, 12-15, 19, 23-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Mandin (U.S. 2004/0100979 A1).
- 3. Regarding claims 1, 12 and 23, Mandin teaches (fig. 4) a method, comprising: determining, by a device that shares an upstream channel (26) with other devices, whether based, at least in part on particular data, an upstream channel data transfer rate can be improved over a current data transfer rate of a current upstream channel from the device to a remote system (fig. 1); and improving by the device, if the upstream channel data transfer rate can be improved, the upstream channel data transfer rate based, at least in part, on the particular data (abstract).
- 4. Regarding claims 2, 13 and 24, Mandin teaches (fig. 1) the device that shares the upstream channel with other devices comprises a cable modem.
- 5. Regarding claims 3, 14, 25 and 29, Mandin teaches (fig. 1) the remote system comprises a cable modern termination system (CMTS).

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6. Regarding claims 4, 15 and 28, Mandin teaches (fig. 4) particular data comprises cable modern transmit queue (28) capacity data.

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- 7. Regarding claims 8 and 19, Mandin teaches (fig. 1) the particular data comprises upstream channel bandwidth data transmitted from the CMTS.
- 8. Regarding claim 26, Mandin teaches (fig. 1) a system, comprising: a cable modem termination system, to transmit and receive data packets; customer premise equipment (12), to receive the data packets from the CMTS (14) and transmit the data packets to the CMTS (14); a cable modem (16), coupled with the CMTS (14) and the CPE (12), to determine whether, based at least in part on particular data, an upstream channel data transfer rate can be improved over a current data transfer rate of a current upstream channel from the cable modem (16) to the CMTS (14), and improve, if the upstream channel data rate can be improved (abstract), the upstream channel data transfer rate based, at least in part, on the particular data (fig. 4); and a coaxial cable, to couple the cable modem with the CMTS (14) and transmit the data packets between the cable modem (16) and the CMTS (14).
- 9. Regarding claim 27, Mandin teaches (fig. 1) the cable modem (16) is integrated with the CPE.

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Claim Rejections - 35 USC § 103

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10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

11. Claims 5-7 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Mandin in view of Lansing (U.S. 203/0058795 A1).

12. Regarding claim 5 and 16, as mentioned above, Mandin teaches all of the

limitations of claim 1.

13. Mandin does not teach determining whether the upstream channel data transfer

rate can be improved comprises determining whether the transmit queue capacity data

indicates that the transmit queue is full.

14. Lansing teaches (paragraph 43) determining whether the transmit queue capacity

data indicates that the transmit queue is full. It would have been obvious to one of

ordinary skill in the art to adapt this to Mandin's system to reduce congestion within the

system.

15. Regarding claims 6 and 17, Lansing teaches (paragraph 43) if the transmit queue

capacity data indicates that the transmit queue is full: determining whether a capacity of

the transmit queue is at a maximum capacity; and increasing the capacity of the transmit

queue, if the capacity is not at the maximum capacity (paragraph 39).

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16. Regarding claims 7 and 18, Lansing teaches (paragraph 43) if the transmit queue

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capacity data indicates that the transmit queue is full: determining whether a capacity of

the transmit queue is at a maximum capacity; and initiating a service flow, if the capacity

of the transmit queue is at the maximum capacity (paragraph 39).

17. Claims 9-11 and 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Mandin in view of Horton (U.S. 6236678 B1).

18. Regarding claims 9-11 and 20-22, as mentioned above, Mandin teaches all of the

limitations of claim 8.

19. Mandin does not teach the bandwidth data comprises an upstream channel

descriptor (UCD) message and an upstream bandwidth allocation map (MAP) message.

20. Horton teaches the bandwidth data comprises an upstream channel descriptor

(UCD) message and an upstream bandwidth allocation map (MAP) message. It would

have been obvious to one of ordinary skill in the art to adapt this to Mandin's system as

this is well known in the art.

Conclusion

21. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Roberta A. Shand whose telephone number is 571-272-

3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

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22. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

23. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roberta A Si

Roberta A Shand Examiner Art Unit 2616

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